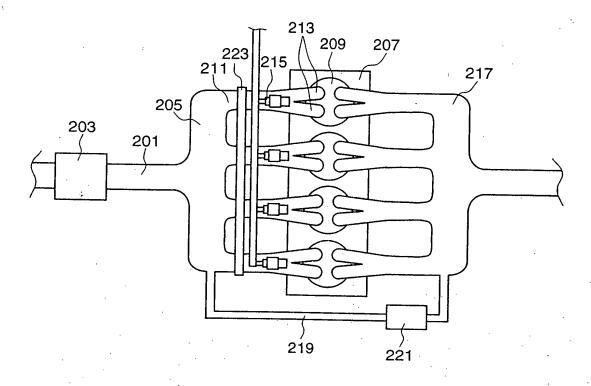


FIG. 5 PRIOR ART



PRIOR ART

FIG. 6

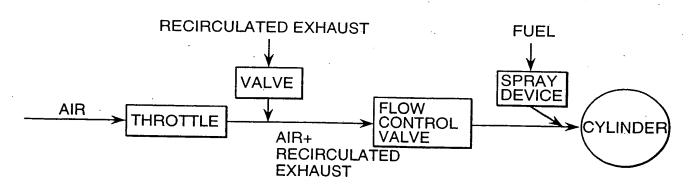


FIG. 10



	B-B' CROSS-SECTIONAL VIEW (LOW-FLOW SIDE)	C-C' CROSS-SECTIONAL VIEW (HIGH-FLOW SIDE)
(1) FULLY CLOSED	310 123 113 155 157 157 141 139	311 123 115 155 155 157 149 141 139
(2)	123 113 155 157 157 143 147 141 139	123 113 155 157 143 147 147 141 139
(3)	123 113 155 157 143 147 141 139	123 113 155 157 157 143 -147 -141 139
(4)	123 113 155 157 157 143 147 141 139	123 113 155 157 143 147 147 141 139
(5) FULLY OPEN	123 113 155 157 157 143 147 141 139	123 113 155 157 157 143 147 147 141 139
(6)	155 123 113 157 147 147 141 139	123 113 155 157 157 143 147 147 141 139
(7) FULLY CLOSED	123 113 155 157 141 157	123 113 155 157 157 143 -147 -141 139

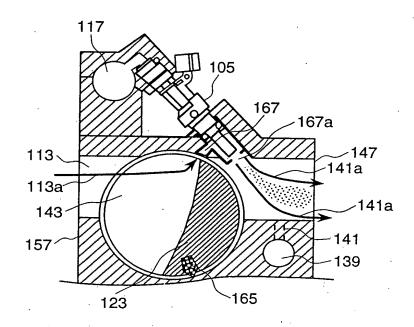
WHEN VALVE IS ROTATED IN R-DIRECTION
WHEN VALVE IS ROTATED IN F-DIRECTION



FIG. 36

(PARTIAL CROSS-SECTIONAL VIEW OF AIR FLOW CONTROL VALVE 123 FROM THE DIRECTION OF ITS ROTATIONAL AXIS)

(1) REGION OF VELOCITY A



(2) REGION OF VELOCITY B

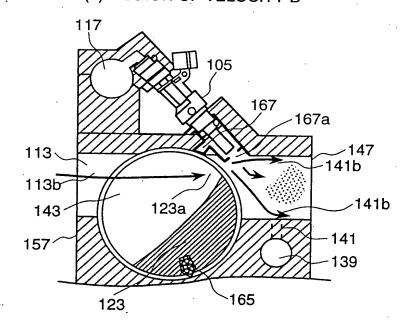
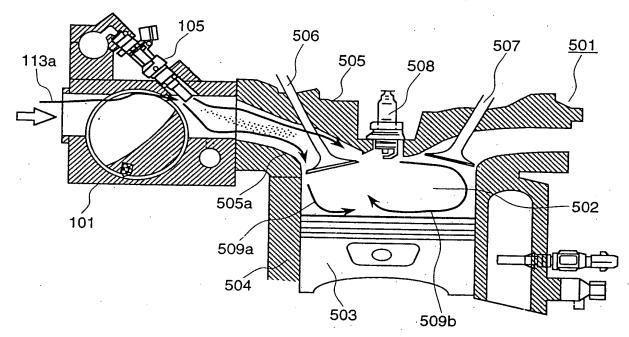




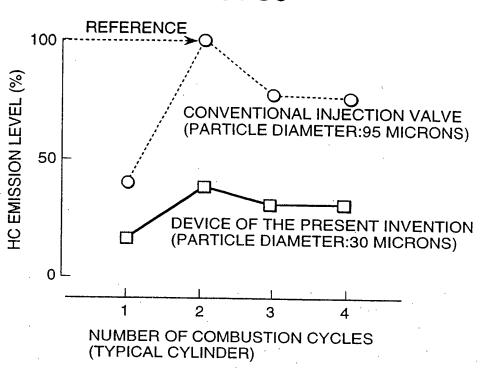
FIG. 38



FUEL IS PREFERABLY INJECTED TOWARDS THE WALL SURFACE OF THE CYLINDER HEAD IN IMMEDIATE FRONT OF THE AIR INLET VALVE. HEREBY, THE FUEL IS PULLED TO THE TOP WALL SIDE BY AIR STREAM.

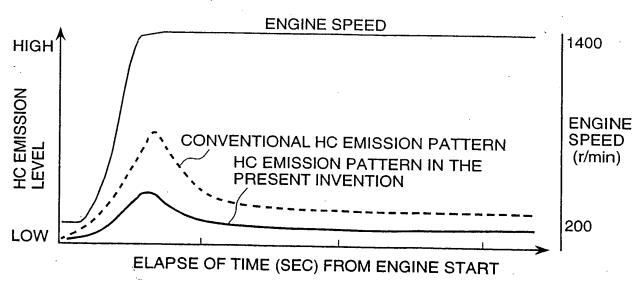






(A SECOND HC EMISSION LEVEL IS TAKEN AS REFERENCE)

FIG. 40



(COMPARISONS DURING 20 SECONDS FROM START TO FIRST IDLING)